



The one millionth acquisition in the University's central Library is handed over to Miss Marion Brown, head of the rare books department, by Chief Librarian Robert Blackburn. He formally received the 399-year-old manuscript from Robert F. Chisholm, chairman of the Varsity Fund, at a dinner on Nov. 19. It is believed the oldest document in Canada relating to exploration in the New World.



DECEMBER 1962

STAFF

bulletin

UNIVERSITY OF TORONTO

DECEMBER EVENTS

1 SATURDAY

- Theatre "A Streetcar Named Desire" by Tennessee Williams, presented by Hart House Theatre. Directed by Robert Gill. Nov. 23 to Dec. 1 inc. 8.30 p.m.
- Lecture Joint meeting of Royal Canadian Institute and Royal Astronomical Society of Canada, Toronto Centre. "Canadian Meteorite Craters". Dr. C. S. Beals, Dominion Astronomer. Convocation Hall. 8.15 p.m.

3 MONDAY

- Music Organ Recital by Douglas Bodle. Convocation Hall. 5 p.m.
- Theatre "La Maschera e il Volto" presented by the University of Toronto Italian Club. Hart House Theatre. 8.30 p.m.

4 TUESDAY

- Films Science films: "The Space Age, Part II". "First Voyage to the Stars" (U.S.S.R.); "To the Stars Again" (U.S.S.R.); "Exploring by Satellite" (U.S.) and "Living in Space" (U.S.). Lower Reading Room, Old Wing, University Library. 12 noon to 1 p.m. Repeated on Wednesday, 1 to 2 p.m. (Bring your lunch.)
- French film. "Images du Périgord". Room 6, U.C. 1.10 and 1.30 p.m. Repeated Wednesday.
- Radio "Dimensions of Freedom" Lecture Series. "Defending Freedom?" Scott Dunbar. CJBC. 8.30 p.m.
- Meeting Academy of Medicine Stated Meeting. "Current Status of Breast Cancer Therapy". Dr. Jerome A. Urban, New York Women's Infirmary. Osler Hall. 8.30 p.m. Dinner at University Club. 6.30 p.m.

5 WEDNESDAY

- Seminar Department of Industrial Engineering. "Automation and Employment". R. S. Ritchie, Imperial Oil Ltd. Room 254, Mechanical Building. 2 p.m. Staff and students are invited.
- Music Hart House Wednesday 5 o'clock concert. Maurice Brown, baritone, and Carol Ann Currie, soprano. Music Room. No tickets necessary.
- Theatre "Caucasian Chalk Circle" by Bertolt Brecht presented by Victoria College Dramatic Society. Dec. 5 to 8 inc. 8.30 p.m.

6 THURSDAY

- Debate "Woman's Place is in the Home". Guest speaker: Toby Robins. Debates Room, Hart House. 8 p.m.
- Music Faculty of Music Special Events. Hart House Orchestra with Boyd Neel conducting, and Greta Kraus, harpsichordist. Concert Hall, Edward Johnson Building. 8.30 p.m.

8 SATURDAY

- Lecture Royal Canadian Institute. "Upper Canada Village". Prof. Anthony Adamson. Convocation Hall. 8.15 p.m.
- Athletics Wrestling. Rochester at Varsity. Hart House. 8 p.m.

9 SUNDAY

- Music Hart House Sunday Evening Concert. Youth Choir of St. George's United Church; director: Lloyd Bradshaw. Great Hall. 9 p.m.

11 TUESDAY

- Film French Film "Tapisseries du XX^e siècle". Room 6, U.C. 1.10 p.m. Repeated Wednesday.
- Radio "Dimensions of Freedom" Lecture Series. "Freedom and Political Authority". Dr. David Gauthier. CJBC. 8.30 p.m.
- Theatre "Daffydil" presented by the Medical Society. Hart House Theatre. Dec. 11 to Dec. 15 inc. 8.30 p.m.

12 WEDNESDAY

- Lecture The President's Committee on Linguistics—Public Lecture Series. "Machine Translation and Human Translation". Prof. Sydney M. Lamb, University of California. Sidney Smith Hall. 4.10 p.m.
- Seminar Department of Industrial Engineering. "Maintenance of Work Standards". Prof. R. Presgrave. Room 254, Mechanical Building. 2 p.m.
- Music Hart House Wednesday Noon-Hour Concert. Brian Barley (jazz). Music Room, Hart House. No tickets necessary.

14 FRIDAY

- Meeting Royal Astronomical Society of Canada, Toronto Centre. "Electronography and Image Intensification in Astronomy". Dr. W. A. Hiltner, Yerkes Observatory, University of Chicago. Room 1035, Wallberg Building. 8 p.m.
- Athletics Hockey. N.H.A. Old Boys at Varsity. Varsity Arena. 8 p.m.
- Basketball. Detroit Tech at Varsity. Hart House. 8 p.m.

15 SATURDAY

- Lecture Royal Canadian Institute. "The Natural Fallow Under Shifting Cultivation". Dr. Charles E. Kellogg, Assistant Administrator for Soil Survey, United States Department of Agriculture. Convocation Hall. 8.15 p.m.

16 SUNDAY

- Open House Hart House Visitors' Sunday. Members are invited to bring their families and friends. 2 to 5 p.m. Tea in the Great Hall 3 to 4.30 p.m.

17 MONDAY

- Seminar Institute of Computer Science. "Business Games for Experimental and Teaching Purposes". Martin Shubik, Thomas J. Watson Research Center, I.B.M., Yorktown Heights, N.Y. Room 101, McLennan Laboratory, 4 p.m. Dec. 17 and 18.

18 TUESDAY

- Film French film: "Balzac". Room 6, U.C. 1.10 p.m. Repeated Wednesday.
Radio "Dimensions of Freedom" Lecture Series. "Freedom and the Self". Prof. Francis Sparshott. CJBC. 8.30 p.m.

31 MONDAY

- Dance Hart House New Year's Eve Ball.

Exhibitions

"Paintings Around the World" (Water Colours) by Doris McCarthy. Alumni Hall, Victoria College. Nov. 13 to Dec. 7.

"19th Century Canadian Art" (courtesy of Laing Galleries). Hart House Art Gallery. Open 10 a.m. to 10 p.m. daily (Ladies 2 to 5 p.m.). To Dec. 9.

Hart House Members' Art Show. Dec. 10 to Jan. 6. Entries from all University mem-

bers accepted at Undergraduate Office until 5 p.m. on Dec. 7. Show open 10 a.m. to 10 p.m. daily (Ladies 2 to 5 p.m.).

"Art Treasures of the Royal Ontario Museum"—one hundred art treasures in the Art and Archaeology Division's collection. Exhibition Hall. To March 17.

"Canadiana Treasures: 25 years" at the Canadiana Gallery. To Sept. 1963.

New College students, 257 strong, enter fully into life of University

New College started life this year with 257 undergraduate members from nine faculties and schools. It is offering them a community life in temporary quarters at 65 St. George street, and semi-weekly tutorials in English, mathematics, physics and chemistry.

The most recent step in its development was the appointment last month of nine Fellows of New College. Together with Dr. Bissell, Principal F. E. W. Wetmore, and Registrar W. S. Wilson, they form the Council of the University's first multi-faculty residential college. The Fellows are:

Dean R. G. Ellis of the Faculty of Dentistry, Professor Dorothy Forward of the department of botany, Professor J. M. Ham of the department of electrical engineering, Dean John Hamilton of the Faculty of Medicine, Professor D. M. Hayne of the University College department of French, Dean F. N. Hughes of the Faculty of Pharmacy, Dean R. R. McLaughlin of the Faculty of Applied Science and Engineering, Professor G. L. Stagg of the department of Italian and Hispanic studies, and Professor Bertie Wilkinson of the department of history.

Building plans for New College are well advanced. It is hoped construction will begin next spring on a site directly west of Sidney Smith Hall, for completion by the fall of 1964. The plans show a five-storey building, roughly L-shaped with a free-form wall along its inner face. The top three storeys have accommodation for 291 men students and six dons. The lower floors house a dining hall, tutorial classrooms, a

library and reading room, seminar rooms, staff and administrative offices, a dean's suite, lunchrooms and common and music rooms.

The majority of New College students this year are freshmen in the Faculty of Arts and Science. Forty-four are in the first year of other divisions, and 32 have joined the College in second, third or fourth years.

Freshman registration includes 25 from Applied Science and Engineering, four from Pharmacy, three each from Nursing, pre-Medical year and the pre-professional year in Dentistry, and two each from Architecture, Household Science and Physical and Occupational Therapy. Within the Faculty of Arts and Science there are 73 first-year students in the General Course, 35 in the General Course in Science, 38 in honour courses in the humanities and social sciences, 31 in honour courses in science, and four in commerce and finance.

Somewhat more than half the students made New College their first choice. The rest applied first to one of the Arts Colleges but transferred to New College. An important factor in registration, Principal Wetmore noted, was the limit on enrolment imposed this year by University College. He praised University College for "generosity" in the selection of students; they had sent just as good students to New College as they had kept in their own halls. However, the lack of a large scholarship fund had discouraged some excellent students from applying for New College.

For instruction in six Arts subjects taught

by the Colleges, New College students are going to University College. In addition, Victoria, Trinity and St. Michael's Colleges have opened their doors to any New College student wanting to take Religious Knowledge, and some are doing so. For the time New College has no teaching staff of its own—Principal Wetmore foresees a future need for departments in some College subjects as registration grows—but only if the new units are of such a size as to be viable and fruitful.

At present the College has 10 tutors, who are graduate students nominated by the heads of their departments. In mathematics, physics and chemistry, they try to support lecturers by helping some students over difficult areas and by enriching the course for others. The three science subjects were chosen as common to several faculties, but students do not register in them unless they are already taking lectures in the same field. All first- and second-year New College students are requested to attend seminars in English, however; here the emphasis is on composition rather than literature.

Tutorial sessions are held on a fortnightly cycle. The largest groups hold 14 students, and except for those in English they are

usually divided according to the students' courses. In very small groups, the tutor may elect to meet his students individually by appointment.

For its first two years New College is using the old house vacated last year by the Division of University Extension. Seminar and study rooms, a lunchroom and informal lounge fill up its three floors. This year's registration is already straining the facilities, and Dr. Wetmore is concerned that some restriction on enrolment may be necessary next fall until the new building is ready.

The undergraduates have elected their own students' council, have fielded a winning rugger team and have several other entries in intramural competition. They would have entered a football team had the budget permitted purchase of uniforms. In the Homecoming parade, their float was one of the top six. A New College music club is being formed and other student organizations are being discussed.

As the first of the new multi-faculty residential colleges, New College raises many questions. "New categories have been created, there's no question about that," its Principal remarked. "They will raise some discussion but the problems will be met."

Staff Appointments

PROF. T. A. GOUDGE will succeed PROF. FULTON ANDERSON as chairman of the Department of Philosophy, effective July 1, 1963.

Both professors are graduates of Dalhousie University who came to Toronto for post-graduate studies and joined the staff. During the war Prof. Goudge served in the Royal Canadian Naval Volunteer Reserve, eventually as Lieutenant Commander. He is the author of books on Henri Bergson and C. S. Pierce, and of *The Ascent of Life*, for which he won the Governor-General's Medal for non-fiction last March.

PROF. ANDERSON has headed the department since 1945. His publications include books on the philosophy of Locke, Plato and Bacon.

DR. B. W. RICHARDS has been appointed

visiting professor in mental retardation in the Department of Psychiatry, following DR. L. T. HILLIARD, the first appointee under the plan financed by the Ontario Association for Retarded Children. Dr. Richards is deputy medical superintendent and consultant psychiatrist at St. Lawrence's Hospital, Caterham, Surrey, England. He is a specialist in mental subnormality and has had posts in four mental deficiency hospitals. While here he will work with the Division of Mental Retardation at the Toronto Psychiatric Hospital and with the department.

DR. ALBERT BETTEX is visiting professor in the Department of German, University College, for the fall term. Dr. Bettex is a well-known Swiss scholar and teacher, and editor of *Librarium*.

NOTES

Administration

PRESIDENT BISSELL attended the Association of American Universities' meeting in New York City, Oct. 23-24. He also attended the ceremony installing Dr. John B. Macdonald as president of the University of British Columbia on Oct. 25, and the following day received an honorary degree of Doctor of Laws at that university's autumn congregation.

DEAN T. H. B. SYMONS has been appointed president and vice-chancellor of Trent University at Peterborough, Ont.

Arts and Science

PROFS. J. F. HEARD, H. S. HOGG, D. A. MACRAE and RUTH NORTHCOTT attended the meeting of the National Committee for the International Astronomical Union in Victoria on Oct. 26-27.

PROF. S. VAN DEN BERGH attended the meeting of the Neighbourhood Astronomers at Perkins Observatory, Delaware, Ohio, on Oct. 20.

PROF. HOGG spoke on Nov. 7 to the Amateur Astronomers' Association of New York City on "Stellar Cities", and on Nov. 10 to the Resources and Technical Services Group and the Reference Workshop of the Library Association on "Present Day Astronomy".

PROF. NORTHCOTT spoke on Nov. 6 to the Niagara Falls Centre of the Royal Astronomical Society of Canada on "New Astronomical Developments in Canada".

PROF. A. D. ALLEN presented a paper entitled "The Effect of Substituents on the Stabilities of Complexes of Platinum with Aryl Phosphines and Acetylenes" at a symposium on Organometallic Compounds held by the Chemical Institute of Canada at the University of British Columbia, Sept. 3-6.

DR. A. G. BROOK addressed the McMaster University Student Chapter of the Chemical Institute of Canada on "Some Stereochemical Studies of Organosilicon Compounds" on Oct. 18.

PROF. J. C. POLANYI attended the 12th Chemical Conference, Nov. 2-9, organized by the Solvay Institute of the University of Brussels, and spoke on "Transfer of Energy in Gasses".

Speakers at Department of Chemistry colloquia in November were DAME KATHLEEN LONSDALE, University College, London, on "Order-Disorder in the Solid State"; Dr. T. M. DUNN, University College, London, on "The Present State of Experiment and Theory in Crystal Field Theory"; and PROF. HENRI FAVRE, University of Montreal, on "CIS-2-Decalone Chemistry".

PROF. G. B. LANGFORD addressed the Toronto Branch, Canadian Institute of Mining and Metallurgy on "Our Most Important Natural Resource—Water" on Oct. 25.

PROF. J. H. PARKER delivered a public lecture on "Lope de Vega's *New Art of Writing Plays* (1609)" at the State University of New York at Buffalo on Oct. 31, and spoke to the Southern Ontario Chapter of the American Association of Teachers of Spanish and Portuguese on "El amor con-jugal: Tema dramático lopesco" at Kingston on Nov. 17.

DR. W. B. GALLIE, Professor of Philosophy at The Queen's University, Belfast, and Visiting Professor at New York University, visited the Graduate Department of Philosophy here on Nov. 22-23. He gave a public lecture entitled "When Moral Philosophy Rests Upon a Mistake", and also conducted a seminar on the subject "Historical Narrative and Historical Explanation".

On Nov. 16, PROF. H. I. MACDONALD gave
(Continued on page 10)

Three Banting and Best professors receive fresh recognition



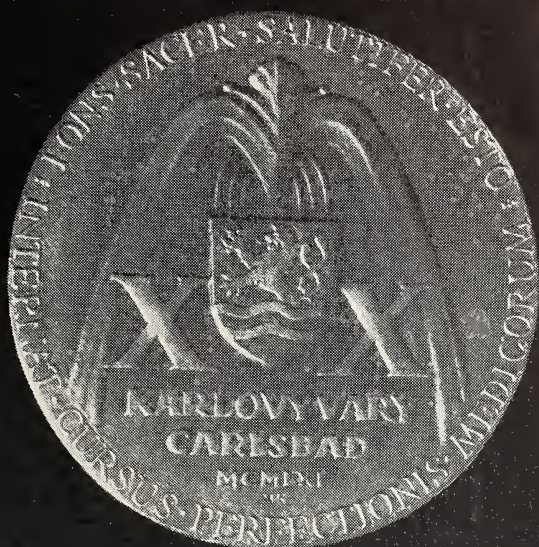
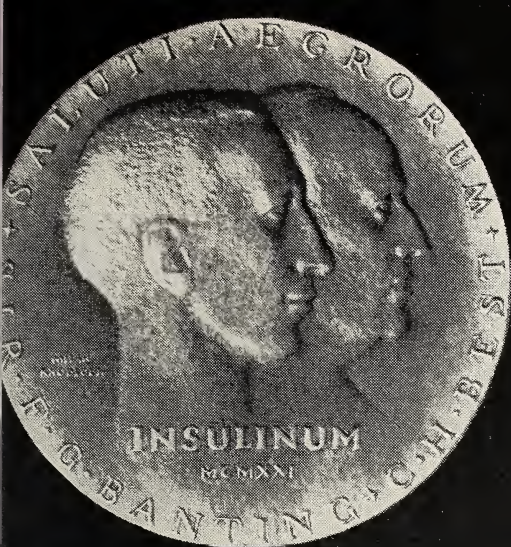
Dr. Erich Baer, *left*, professor in the Banting and Best Department of Medical Research, receives the highest award of the Chemical Institute of Canada from Dr. Léo Marion. The photograph refutes the old adage that the camera never lies. Guests reflected in mirror are giving the ceremony their full attention.

Professor Charles H. Best, the director, and Professors Erich Baer and W. R. Franks have won significant new honours for the Banting and Best Department of Medical Research this year.

The current issue of the *Journal of the American Diabetes Association* records the coining of the Banting and Best Commemorative Medal by the Czechoslovak Society of Physical Medicine. It marks the fortieth anniversary of the introduction of Insulin into the treatment of diabetes mellitus.

The medal, in silver for Dr. Best and in bronze for the University's archives, has been received in Toronto. On one side are the profiles of a youthful Dr. Banting and a mature Dr. Best. The reverse is decorated with an emblem of the famous hot geyser of Carlsbad, Czechoslovakia's biggest spa for metabolic disease.

At the Collège de France, where he spent several weeks as visiting professor this year, Dr. Best received the Grand Silver Medal of the City of Paris. In making the presenta-



CZECHOSLOVAKIA'S BANTING AND BEST MEDAL

tion, the gallant mayor of Paris did not overlook Mrs. Best who was with her husband: to her he gave a handsome book.

The Aerospace Trophy

In Atlantic City, Dr. W. R. Franks received the Eric Liljencrantz award from the Aerospace Medical Association "for outstanding research in aerospace medicine". The trophy is modelled after Colonel John Glenn's spaceship, Friendship 7. Among the achievements which brought this fresh international recognition to Dr. Franks was invention of the world's first G-suit which, in World War II, enabled Allied fighter pilots to remain conscious when executing sharp turns at high speed.

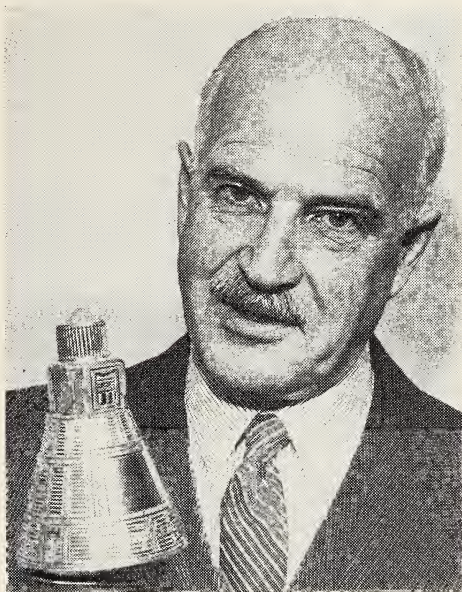
Dr. Baer's Award

Professor Erich Baer has received the 1962 Chemical Institute of Canada Medal, the Institute's highest award. This honour recognizes 36 years in research, 24 of them at the University of Toronto where for many years Dr. Baer has been head of the sub-department of synthetic chemistry in relation to research, in the Banting and Best Department of Medical Research.

Dr. Baer's work is summed up in 103 publications, several of them classics in their fields. It has dealt with the synthesis of biologically important carbohydrates, glycerides and phospholipids, many of them of vital significance in the living cell. As a

result of his findings, the natural chemical substances for the first time can be compared with pure chemical substances of known structure and configuration.

Dr. Baer took his Ph.D. at the University of Berlin under Professor H. O. L. Fischer, and in 1932 went with him to the University of Basle. Five years later, both came to Toronto.



DR. FRANKS AND HIS TROPHY

(Continued from page 7)

a lecture and seminar in the Canadian Studies Programme at the University of Rochester, and also spoke to the Rochester Chamber of Commerce.

PROF. D. E. BERLYNE addressed the colloquium on "Motivational Effects of Complexity and Incongruity" at Vanderbilt University, Oct. 25, and at the University of Michigan Nov. 16.

PROF. J. E. CALLAGAN appeared before the Royal Commission on Juvenile Delinquency, Toronto on Oct. 17.

PROF. R. H. WALTERS will become an associate editor of Child Development Publications on Jan. 1, 1963. He has in press his book "The Social Learning of Deviant Behavior: a Behavioristic Approach to Socialization", to be published by Holt, Rinehart and Winston, with Dr. Albert Bandura as co-author.

Speakers at the Psychology Colloquium since the beginning of term have been PROF. M. J. ROSENBERG of Ohio State University who spoke on "A Structural Approach to Attitude Change"; PROF. A. H. BLACK of McMaster University on "Conditioning Using Aversive Reinforcers"; and PROF. J. S. BRUNER of Harvard University who discussed "Developmental Stages in Human Intelligence".

DR. C. S. CHURCHER gave a paper entitled "The Dentition of Primates" to the Toronto groups of the International Association for Dental Research on Nov. 1.

DR. J. B. FALLS presented a paper entitled "Field Experiments with Recorded Sounds of Birds" to the XIII International Ornithological Congress held at Cornell University in June.

DR. T. E. REED gave a paper in June at the Cancer Research Institute, University of California Medical Centre, San Francisco, entitled "Natural Selection Due to Blood Groups".

University College

PROF. G. P. GOOLD visited Yale University from Oct. 26 to 29, where he gave an address entitled "Richard Bentley; a Commemorative Lecture", and conducted a seminar on "The Textual Criticism of Ovid".

PROF. F. V. WINNETT participated in an epigraphical and archaeological survey of Northern Saudi Arabia last spring under a Canada Council grant; he also took part in an archaeological sounding at the Moabite site of El-Al.

PROF. R. J. WILLIAMS has returned from his leave of absence during the spring term spent in taking part in the University of Chicago excavations at Serra East in the Sudan. He reported on the excavations to the Abraham Kuenen Circle of the University of Leiden on June 26. He also attended the Society for Old Testament Study meeting at Winchester July 17 to 19.

PROF. J. W. WEVERS took part in the excavations of ancient Jerusalem during April, May and June, jointly sponsored by the Royal Ontario Museum, the British School of Archaeology, and the Ecole Biblique. During July and August he lectured on Old Testament Theology as guest professor in Perkins School of Theology in Dallas, Texas. He also attended the meeting of the IXth International Congress of Linguists in Cambridge, Mass., August 27-31.

MR. D. B. REDFORD travelled in Egypt during May and June under a Canada Council Grant for the purpose of copying inscriptions.

PROF. V. E. GRAHAM delivered a paper on "Modern French Organ Music" to the Toronto Centre, Royal Canadian College of Organists on Oct. 20.

MR. P. R. DUCRETET attended the Congress of the Association Canadienne-Française pour l'Avancement des Sciences, and took part in the discussions of the Linguistics Section.

Victoria

MR. RALPH S. MILLS, Q.C., B.A., (2T5) has been appointed chairman of the Board of Regents of Victoria University. He succeeds MR. HENRY E. LANGFORD, Q.C., B.A. (2T5) who has retired from the chairmanship but is continuing as an active member of the Board.

PRINCIPAL NORTHROP FRYE addressed the National Council of Teachers of English at Miami, Florida, on Nov. 23 and from Nov. 26 to 29 visited eight universities in Virginia.

PROF. MILLAR MACLURE read a paper on "Social Significance in the Arts" at the Festival of the Arts in McMaster University, Nov. 2-4.

PROF. J. A. IRVING gave a public lecture under the auspices of the Department of Philosophy, at the University of Western Ontario on Oct. 18 on "The Unity of Knowledge", and conducted a graduate seminar on Oct. 19 on "The Language of Ethics".

PROF. LAURE RIÈSE was visiting lecturer in Cleveland on Oct. 22, 23 and 24 where she delivered addresses on "Paris 1962" to the Maison Française, on "Les dessus et dessous d'un livre" before the cercle des Conférences Françaises, and on "France-Algérie" to the Institute of International World Affairs.

St. Michael's

REV. J. M. KELLY, the President, addressed the National Convention of the Canadian Association of Catholic Educators at the Royal York Hotel on Oct. 20 on "Some Trends on the Contemporary Educational Scene".

Medicine

PROF. R. A. GORDON visited Great Britain in October. He was invited to attend the celebration of the 25th anniversary of the founding of the Nuffield Department of Anaesthetics at Oxford; to address the Department of Anaesthesia of the University of Glasgow and the West of Scotland Society of Anaesthetists. He also attended the meeting of the Association of Anaesthetists of Great Britain and Ireland.

DR. E. D. WIGLE attended the Fourth World Congress of Cardiology in Mexico City, Oct. 7-13, and presented a paper on "Idiopathic Ventricular Septal Hypertrophy Causing Subaortic Stenosis".

DR. J. H. CROOKSTON attended the International Society of Haematology meeting in Mexico City in September, and presented two papers: "Platelet Economy and Blood Coagulation in Myeloproliferative Disorders" and "Platelet Survival and Turnover in Subjects with Haemorrhagic Disorders".

DR. E. A. McCULLOCH attended the same meeting and gave a paper on "Kinetics of Proliferation of Haematopoietic Colony-forming Cells in the Mouse". At the International Congress of Radiology meeting in Montreal in August he presented a paper on "The Effects of Radiation on Colony-forming Cells of Mouse Haemic Tissues".

DR. K. J. R. WIGHTMAN attended the Congress of Radiology meeting in Montreal and gave a paper on "The Use of Radioisotopes in the Treatment of Certain Haematologic Disorders". He also attended the Oct. 2 meeting of the Inter-State Post-Graduate Medical Association in Chicago and presented a paper on the malabsorption syndrome.

Recent visitors to the Department of

Medicine have been PROF. J. V. DACIE; DR. P. L. MOLLISON, Director of the Medical Research Council's Blood Transfusion Research Unit, British Post-Graduate Medical School, London, England; PROF. ERIC BYWATERS, under the auspices of the Canadian Arthritis and Rheumatism Society, who lectured here on "Juvenile Rheumatoid Arthritis" and "Joint Involvement in Bone Disease"; DR. R. K. SMILEY, Ottawa General Hospital, and DR. J. H. B. HILTON, Ottawa Civic Hospital, who came to study some of our teaching methods, particularly with reference to clinical clerkship.

The Department of Ophthalmology held the 3rd Clinical Convention of the University's Eye alumni on Oct. 26. Residents in the teaching hospitals presented papers on their research in competition for the Alumni Prize, won by DR. D. H. GREEN, for the best clinical paper produced by a resident of the department.

MISS HELEN LEVESCONTE, MRS. THELMA CARDWELL, MISS ISOBEL ROBINSON, MISS JOAN CROSBY and MRS. ELIZABETH JACKSON attended the Third International Congress of the World Federation of Occupational Therapists held in Philadelphia in October. At the Council meetings held preceding the Congress, Miss LeVesconte was elected chairman of the Education Committee and Mrs. Cardwell was re-elected secretary-treasurer of the Federation. Prior to the Congress, a two-day meeting on education was held, at which the directors of schools of occupational therapy from sixteen countries participated. Miss Robinson was the convener of this session.

Recent visitors to the Division of Rehabilitation Medicine include: MISS INGRID PAHLSSON, President of the World Federation of Occupational Therapists and Director of the Occupational Therapy School at Aarhus, Denmark; MISS MARGARET FULTON, M.B.E., Royal Mental Hospital, Aberdeen, Scotland; MISS BETTY COLLINS, Assistant Principal, Dorset House School of Occupational Therapy, Oxford, England; and MRS. JEAN HART, Fish Hoek, South Africa.

Applied Science and Engineering

DR. A. P. BERNHART attended the annual meeting of the Water Pollution Control Association in Toronto, Oct. 8-11. His article on "Air Pollution" published in the Civil Administration, March 1962, has won first prize in a journalist's competition conducted by Industrial Marketing, New York.

MR. V. P. BORECKY conducted a workshop on "Projective Geometry in Engineering Graphics" at the Associated Graphics Summer School held during the annual meeting of the ASEE, June 14-21 at the Air Force Academy in Colorado Springs.

PROF. M. M. DAVIS attended the 43rd Convention of the Canadian Good Roads Association in Quebec, Oct. 2-5.

PROFS. A. C. DAVIDSON and L. E. JONES addressed a seminar of engineering students from Ontario Universities on Oct. 27 in Hart House.

PROF. G. KANI presented a paper entitled "The Solution to the Riddle of Shear Failure" at the Shear Strength Symposium in Stuttgart, Germany, Oct. 26-27.

DR. J. SCHWAIGHOFER addressed the Toronto Section of the Society of Experimental Stress Analysis on the subject "The Use of Models in Structural Engineering", Oct. 16.

PROF. C. A. WRENSHALL and MR. V. P. BORECKY attended the annual meeting of the ASEE at the Air Force Academy in Colorado Springs.

PROF. S. SANDLER presented an invited paper entitled "A Survey of Recent Developments in Analytical and Preparative Gas Chromatography" at the Joint Symposium of the Analytical Chemistry Division, Chemical Institute of Canada and the Canadian Association for Applied Spectroscopy, in Ottawa, Sept. 17.

PROF. W. H. RAPSON co-authored a paper with MR. R. Y. M. HUANG on "The Effect of Swelling Agents on Grafting Styrene onto Cellulose by Gamma Rays", presented at the Cellulose Research Conference in Syracuse, N.Y., Oct. 19.

PROF. W. F. GRAYDON attended the meeting of The Electro-chemical Society, contributing a paper jointly with J. BUMBULIS on "Dissolution of Brass in Sulphuric Acid Solutions, 1.85/15 Brass", at Boston, Sept. 16-20.

PROF. D. G. ANDREWS attended a joint ANS-ASEE meeting on the subject of future developments in nuclear engineering education at Boston, Oct. 29-31.

Twelve out of forty papers presented at the Canadian Chemical Engineering Conference in Sarnia, October 22-24, were contributions from the Department of Chemical Engineering and Applied Chemistry. PROFS. GRAYDON, HUMMEL, JERVIS, MACELHINNEY, MISSEN, RAPSON, SANDLER, SMITH, SPINNER and TRASS took part in the meeting, which was sponsored by the Chemical Engineering Division of the Chemical

Institute of Canada with the co-operation of the Engineering Institute of Canada. The following papers were presented: "Natural Convection Heat and Mass Transfer" by R. L. HUMMEL; "Heat Transfer Between Multiple-Tubed Heat Exchangers and a Fluidized Bed" by C. S. GAILLARD of Dominion Tar and Chemical, and W. G. MACELHINNEY; "Radiation. III. Radiation Grafting of Methyl Methacrylate onto Cellulose" by R. Y. M. HUANG, E. KVASNICKA and W. H. RAPSON; "A New Method of Continuous Ion-Exchange Using Reciprocating Flow" by I. H. SPINNER and R. F. HUNTER; "A Study of the Pyrolysis of *n*-Butane in a Differential Flow Reactor" by S. SANDLER, and M. A. LANEWALA of New York University; "Oxidation Product Distribution and the Negative Temperature Coefficient of the Reaction of *n*-Pentane-Air Mixtures in an Annular Flow Reactor" by S. SANDLER and Y. H. CHUNG; "On the Thermodynamics of Simultaneous Reactions: The Dehydrogenation of *n* Butylenes" by R. W. MISSEN; "Boiling Theory and its Application to Obtain Very High Boiling Film Coefficients by Surface Pre-Treatment Alone" by R. L. HUMMEL; "Ion Exchange Diaphragms for Caustic-Chlorine Cells" by S. CHRYSIKOPOULOS, A. S. TOMBALAKIAN and W. F. GRAYDON; "Sublimation Mass Transfer in Supersonic Flow: The Effect of Compressibility and Schmidt Number" by S. I. OLVEIT and O. TRASS; "Mass Transfer During Single Drop Formation" by R. E. JERVIS; and "Static Electrification of Fluids in Turbulent Flow" by R. LUUS, Z. MAY and W. F. GRAYDON.

PROFS. P. P. BIRINGER, A. J. KRAVETZ, and G. F. TRACY attended the annual meeting of the Upper New York-Ontario-Quebec Section of the American Society for Engineering Education at Alfred, N.Y., Oct. 12-13. Prof. Biringer was a member of a panel on "New Approaches to Teaching Mathematics" and Prof. Kravetz was a member of a panel on "State Universities—Their Role in Engineering Education".

PROFS. G. SINCLAIR and J. L. YEN attended the 1962 fall URSE-IRE meeting in Ottawa, Oct. 15-17. This meeting was jointly sponsored by the URSI National Committees of the U.S. and Canada and the IRE Professional Groups. Dr. Yen presented a paper, jointly with two of his students, on "An Open Resonator Method for Electron Density Measurements in Low-Pressure Plasmas".

PROF. G. R. SLEMON attended the fall general meeting of the AIEE, and pre-

sented a paper on "The Analysis of the Hysteresis Motor", co-authored by MR. M. A. COPELAND, in Chicago in October.

PROF. G. SINCLAIR attended a meeting of the N.R.C. Associate Committee on Radio Science in Ottawa and also attended a meeting of the IRE Board of Directors.

DR. G. N. PATTERSON attended a meeting of the Technical Advisory Panel of the National Aeronautical Establishment in Ottawa, Sept. 28.

DR. G. K. KORBACHER attended the symposium on Jets and Jet Sheets of the Associate Committee on Aerodynamics of the N.R.C., where he reported on his work "About the Drag of Jet Flapped Wings", in Ottawa, Sept. 11.

PROF. B. ETKIN was chairman of a meeting of the N.R.C. Associate Committee on Aerodynamics in Ottawa, Sept. 10, and attended the symposium on Jets and Jet Sheets the following day.

DR. J. H. DE LEEUW also attended the N.R.C. Associate Committee on Aerodynamics meeting.

PROF. ETKIN was chairman at a panel discussion on Aerospace and the Professional Engineer held by the Ontario Association of Professional Engineers, Oct. 27. DR. G. N. PATTERSON participated in the same seminar. He also gave a lecture on "Mechanics of Highly Rarefied Gases" at Cornell Aeronautical Laboratory, Buffalo, N.Y., Nov. 9.

DR. I. I. GLASS visited the National Research Council in Ottawa, Oct. 15-16, in order to discuss current problems in space research, hypersonic gasdynamics and blast wave phenomena.

PROF. B. BERNHOLTZ presented a paper entitled "Hydrothermal Economic Scheduling. Part V. Scheduling a Hydrothermal System with Interconnections" at the fall general meeting of the AIEE in Chicago.

PROF. W. D. BAINES has been appointed chairman of the Committee on Hydro-mechanics of the American Society of Civil Engineers.

DR. F. P. J. RIMROTT attended the 2nd International Congress of the GAMAC (Groupement pour l'avancement des methodes d'analyse des contraintes) in Paris, the annual meeting of the GAMM (Gesellschaft für Angewandte Mathematik und Mechanik) in Bonn, and the Deutscher Ingenieurtag 1962 in Karlsruhe this summer. He delivered a paper entitled "La détermination des tensions résiduelles par fraissage chimique" in Paris and a paper entitled "Zur Berechnung von Wärmespannungen in Verdichterlaufrädern" in Bonn.

PROF. L. E. JONES participated in the meeting of the Canadian Centenary Council, as representative of the Royal Canadian Institute, Oct. 24-25. PROFS. JONES and A. C. DAVIDSON were guest speakers at the inaugural Inter-University Undergraduate Engineering Seminar in Hart House, Oct. 26-27, discussing "Culture and the Study of Engineering". The seminar was arranged by the University of Toronto Engineering Society and student delegates were invited from Assumption, Carleton, Laurentian, McMaster, Ontario Agricultural College, Ottawa, Queen's, Royal Military College, Waterloo and Western.

PROFS. C. B. CRAIG and D. C. WINEGARD attended the American Society for Metals Seminar at New York, Oct. 25-28.

PROFS. S. N. FLENGAS was awarded the degree of D.Sc. from the University of London, England. He attended the Conference of Metallurgists at McMaster University and presented a paper entitled "The Thermodynamic Properties and the Electrical Conductivities of $\text{AgCl-Ag}_2\text{S}$ Molten Mixtures", Sept. 4-7.

PROF. H. U. ROSS attended the Journées Internationales de la Siderurgie (International Conference on Ironmaking) in Luxembourg, Oct. 1-4; the 30th Blast Furnace Conference of the British Iron and Steel Research Association in Scarborough, England, Oct. 11-12; and a special series of lectures on the Iron Blast Furnace sponsored by the Royal School of Mines at the Imperial College of Science and Technology in London, Oct. 15-17. He also visited the Metallurgy and Refractory Departments at Sheffield University, the B.I.S.R.A. research laboratories in London, the research laboratories of the United Steel Companies in Rotherham, and the research laboratories of the Institut de Recherches de la Siderurgie in St. Germain-en-Laye and Maizières les Metz, France.

Household Science

PROF. I. ARMSTRONG, MRS. D. HELLEBUST, and MISS H. SMICKLAS attended the annual meeting of the Federation of American Societies for Experimental Biology in Atlantic City, April 13-17, where Miss SMICKLAS presented a paper entitled "A Long Term Study of Weight Reduction" to the American Institute of Nutrition.

PROFS. B. A. MCLAREN and I. ARMSTRONG and Miss SMICKLAS attended the 5th annual meeting of the Canadian Federation of Biological Societies at Laval University,

June 6-9. Prof. Armstrong presented a paper entitled "Nutritional Aspects of Phenylketonuria".

Members of staff giving papers at the symposium for Household Science Alumnae, held Homecoming Weekend, were: PROF. M. B. PHILLIPS, on "Hazards of Excess"; MRS. K. IRWIN on "Consumer's Choice"; MRS. B. A. FALLOWS on "Scope of Design"; and Miss H. SMICKLAS on "Appetite Control".

Education

PROF. H. O. BARRETT spoke to the Peel Teachers' Institute on Oct. 26 on the subject "The Need for Research in Education".

PROF. WILLARD BREHAUT spoke to the local meeting of the Ontario Secondary School Teachers' Federation, Kincardine, Oct. 11 on "The Carnegie Study and Departmental Testing Programme".

DEAN B. C. DILTZ addressed the convention of the Ontario Secondary School Teachers' Federation, District 28, meeting at Sudbury, Nov. 2 on the subject "Beyond Excellence" and the Ontario English Catholic Teachers' Association meeting, Nov. 24 on the subject "The Fringe Benefits of Shakespeare's Mind".

PROF. GEORGE E. FLOWER addressed the annual convention of the teachers of East York Oct. 19, and of Guelph and district, Oct. 24, on the topic "Teaching versus Learning".

PROF. G. A. KIRK acted as chairman of a panel discussing the teaching of a second language in elementary school at the convention of the Ontario Public School Trustees' Association at Sarnia, Oct. 1-3.

PROF. E. BROCK RIDEOUT addressed the Zone Conference of the Ontario Public School Trustees' Association, Inc. at Oshawa in June on the topic: "Problems in the Financing of Education". He was a member of a panel discussing "The Financing of Education" at the annual convention of the Canadian Education Association at Edmonton on Sept. 20.

PROF. W. E. SAGER addressed the Sarnia Secondary School Geography Teachers Oct. 15 on "The Characteristics of a Good Geography Lesson" and the "Robarts' Plan, Four Year Programme for Geography in Secondary Schools". On Oct. 26 he spoke to the Ottawa Secondary School Geography Teachers on "Teaching Ideas for Geography Lessons". Prof. Sager addressed the Niagara District Roman Catholic Teachers in Welland, Oct. 29, on "Geography, a De-

veloping Discipline in Secondary Education".

PROF. G. E. TAIT, on Oct. 5, addressed the elementary school teachers of the Rainy River District on the topic "Ontario Education During the Nineteenth Century". Prof. Tait acted as Social Studies consultant to a conference of elementary school inspectors and Teachers' College staff held at the Lakeshore Teachers' College on Nov. 5.

Forestry

DEAN J. W. B. SISAM attended the annual meeting of the Canadian Institute of Forestry, held in Vancouver, Oct. 22-27, and chaired a panel discussion entitled "Conflicts in Forest Land Use".

DR. R. W. KENNEDY attended the fall meeting of the Eastern Canadian Section, Forest Products Research Society, held in Pembroke on Oct. 25. Dr. Kennedy arranged for an Open House in the Faculty on Oct. 27. The theme, "Wood Technology and Forest Products", was part of the celebration of National Forest Products Week, Oct. 21-27.

Music

PROF. ROBERT A. ROSEVEAR spoke on "The Place of Music in the High School" at a Sudbury district convention of the Ontario Secondary School Teachers' Federation on Nov. 2.

Pharmacy

DEAN F. N. HUGHES addressed the annual meeting of the Society of Hospital Pharmacists (Ontario Branch), on Oct. 31, on the subject "The Board of Approval for Hospital Pharmacy Internships in Canada".

The following professors presented papers at the Ontario College of Pharmacy Seminar, in Windsor, on Oct. 31: G. R. DUNCAN, "Anti-Hypertensive Drugs"; D. R. KENNEDY, "Dermatology for the Pharmacist"; and G. R. PATTERSON, "Psychotropic Drugs".

Architecture

DR. E. R. ARTHUR has returned from serving on the jury of award for a competition for buildings in Banff for the 1968 Olympic Winter Games. If Canada succeeds in getting the games, the successful competitors proceed to a second stage, and the jury will meet again in Banff to select the winner.

On Nov. 2 PROF. R. H. GROOMS gave a lecture on "Japanese Townscape: the Japanese as Artists in the Streets" at the School of Design, North Carolina State College, Raleigh. On Nov. 8 he lectured on "Colour and Texture in Japanese Gardens" to the North Toronto Horticultural Society.

PROF. S. R. KENT attended, as a foreign appraiser, the seminar on Modular Coordination in Low Cost Housing, conducted by the United Nations Economic Commission for Latin America in San Salvador, El Salvador, Aug. 13-22.

PROF. D. H. LEE has been appointed Technical Editor of the Journal of the Royal Architectural Institute of Canada. Prof. Lee attended the World Conference on Shell Structures in San Francisco Oct. 1-4.

Hygiene

DR. DONALD M. MCLEAN attended the annual meeting of the American Academy of Pediatrics in Chicago on Oct. 29 where he delivered a paper entitled "Infection Hazards in Swimming Pools". On Oct. 31 and Nov. 1 he attended meetings of the American Committee on Arthropod-Borne Viruses and the American Society for Tropical Medicine at Atlanta, Georgia.

Business

PROF. J. H. G. CRISPO addressed the Ontario Chapter of the International Association of Personnel in Employment Security, Sept. 14, on the subject of "The Role of Education and Training in an Era of Rapid Technological Advance".

DR. O. W. MAIN addressed a meeting of P.E.G.E.T.A. on "Corporate Aid to Education" on Oct. 2. He also addressed a seminar of the Administrative Development Committee of Canada Life Assurance Company on "Management or Administration" on Oct. 3. He attended a conference of the Chemical Economics Division of the Chemical Institute of Canada, in Montreal, on Oct. 18, and was chairman of a panel at the Industrial Marketing Seminar of the Toronto Chapter of the American Marketing Association on Nov. 6.

PROF. R. PRESGRAVE gave an address on "Principles of Work Study" to the Federal Treasury Department Officers on Oct. 16, and on "Arbitration in Public Service" to the Ontario Department of Public Works, on Nov. 1.

PROF. JOHN C. SAWATSKY addressed a

meeting of the Canadian Automotive Wholesale Association on Oct. 23. He presented a paper on "The Principles of Management" at a seminar on Administration, held at the Education Centre in Toronto by the Association of Secondary School Superintendents.

PROF. R. E. VOSBURGH presented a paper on "Morality in Marketing" at Queen's University on Nov. 14.

Computer Science

PROF. BEATRICE H. WORSLEY addressed the Clinical Investigation Society of Toronto on Oct. 29 on the subject of "The Application of Modern Computers to Medical Problems".

PROF. C. C. GOTLIEB attended the Special Committee on Programming Terminology of the Association for Computing Machinery meeting in Philadelphia on Oct. 25.

The Institute and the Graduate Department of English held a joint seminar on the Mechanization of Literary Research, when PROF. STEPHEN M. PARRISH, Cornell University, spoke on "The Cornell Concordances: History and Prospects" on Oct. 29.

A seminar in "Critical Path Scheduling" was given by A. T. KUTT, International Business Machines on Nov. 28.

The Press

The following have been published by the Press since the November issue of the BULLETIN:

The Alignment of Political Groups in Canada, 1841-1867. By Paul G. Cornell. Canadian Studies in History and Government, No. 3. \$4.75

Procedure in the Canadian House of Commons. By W. F. Dawson. Canadian Government Series, No. 12. \$6.00

The Canadian General Election of 1957. By John Meisel. Canadian Government Series, No. 13. \$6.50

The Poetical Works of Richard Savage. Edited by Clarence Tracy. \$5.75

The Demand for Canadian Imports, 1926-1955. By Murray C. Kemp. Canadian Studies in Economics, No. 15. \$3.50

The New Europe: Proceedings of the 31st Couchiching Conference. Edited by D. L. B. Hamlin. \$2.00

Dickens and the Twentieth Century. Edited by John Gross and Gabriel Pearson. \$5.25

Soldiers and Politicians: The Memoirs of Lt.-Gen. Maurice A. Pope. \$7.50

Proceedings of the Third World Congress of Psychiatry. 2 vols. \$35.00 per set
Ancient Glass. By Frederic Neuburg. \$14.00

CANADIAN UNIVERSITY PAPERBOOKS:

1. *The Canadian Identity*. By W. L. Morton. \$1.75
 2. *The Fur Trade in Canada*. By Harold Adams Innis. \$1.95
 3. *Rideau Waterway*. By Robert Leggett. \$1.95
 4. *The Politics of Education*. By Frank MacKinnon. \$1.95
 5. *Our Living Tradition, First Series*. Edited by C. T. Bissell. \$1.75
 6. *Essays in Canadian Economic History*. By Harold Adams Innis. \$2.95
 7. *The Bruce Beckons*. By W. Sherwood Fox. \$2.25
 8. *The Renaissance and English Humanism*. By Douglas Bush. \$1.50
- Canadian Journal of Economics and Political Science*. Vol. XXVIII, Number 4: November, 1962.

Canadian Journal of Theology. Vol. VIII, Number 4: October, 1962
Physics in Canada: The Bulletin of the Canadian Association of Physicists. Vol. XVIII, Number 3: Autumn, 1962

Other Books

- The Political Theory of Possessive Individualism, Hobbes to Locke*. By C. B. Macpherson. Oxford, Clarendon Press. 1962.
- Patterns of Surmise*. By B. C. Diltz. Clarke Irwin, Toronto. \$4.50
- Basic General Science II*. By F. M. Speed. Macmillan. \$2.95
- St. Paul and his Letters*. By F. W. Beare. A. & C. Black, London; and Abingdon Press, New York and Nashville (Canadian agent: Macmillan)
- The Earliest Records of Jesus: a Companion to Huck's Synopsis of the First Three Gospels*. By F. W. Beare. Blackwell, Oxford; Abingdon Press, New York and Nashville (Canadian agent: G. R. Welch)

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